

At page 83, line 12, please delete "Boehringer" and insert therefor --Boehringer--.

At page 91, lines 12, 19 and 29, please delete "soluable" and insert therefor  
--soluble--.

At page 94, line 25, please delete "the".

***In the Claims:***

Please cancel claims 1-10, 17-18 and 20-23 without prejudice to or disclaimer of the  
subject matter therein.

Please add the following new claims:

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--24. An isolated polynucleotide comprising a first nucleic acid at least 90% identical  
to a reference nucleic acid selected from the group consisting of:

- (a) a nucleic acid encoding amino acids 142 to 211 of SEQ ID NO:2;
- (b) a nucleic acid encoding amino acids 248 to 331 of SEQ ID NO:2;
- (c) a nucleic acid encoding amino acids 2 to 335 of SEQ ID NO:2;
- (d) a nucleic acid encoding amino acids 1 to 335 of SEQ ID NO:2;
- (e) a nucleic acid encoding the complete amino acid sequence encoded by  
the cDNA clone contained in ATCC Deposit No. 203072; and
- (f) the complement of (a), (b), (c), (d) or (e).

25. The isolated polynucleotide of claim 24, wherein said first nucleic acid is at least 90 % identical to (a).
26. The isolated polynucleotide of claim 25, wherein said first nucleic acid is at least 95 % identical to (a).
27. The isolated polynucleotide of claim 26, wherein said first nucleic acid is (a).
28. The isolated polynucleotide of claim 24, wherein said first nucleic acid is at least 90 % identical to (b).
29. The isolated polynucleotide of claim 28, wherein said first nucleic acid is at least 95 % identical to (b).
30. The isolated polynucleotide of claim 29, wherein said first nucleic acid is (b).
31. The isolated polynucleotide of claim 24, wherein said first nucleic acid is at least 90 % identical to (c).
32. The isolated polynucleotide of claim 31, wherein said first nucleic acid is at least 95 % identical to (c).
33. The isolated polynucleotide of claim 32, wherein said first nucleic acid is (c).

34. The isolated polynucleotide of claim 24, wherein said first nucleic acid is at least 90 % identical to (d).

35. The isolated polynucleotide of claim 34, wherein said first nucleic acid is at least 95 % identical to (d).

36. The isolated polynucleotide of claim 35, wherein said first nucleic acid is (d).

37. The isolated polynucleotide of claim 24, wherein said first nucleic acid is at least 90 % identical to (e).

38. The isolated polynucleotide of claim 37, wherein said first nucleic acid is at least 95 % identical to (e).

39. The isolated polynucleotide of claim 38, wherein said first nucleic acid is (e).

40. The isolated polynucleotide of claim 24, wherein said first nucleic acid is at least 90 % identical to (f).

41. The isolated polynucleotide of claim 40, wherein said first nucleic acid is at least 95 % identical to (f).

42. The isolated polynucleotide of claim 41, wherein said first nucleic acid is (f).

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43. The isolated polynucleotide of claim 24, further comprising a heterologous polynucleotide.

44. A method of producing a vector comprising inserting the isolated polynucleotide of claim 24 into a vector.

45. A vector comprising the isolated polynucleotide of claim 24.

46. The vector of claim 45, wherein said isolated polynucleotide is operably associated with a heterologous regulatory sequence.

47. A host cell comprising the isolated polynucleotide of claim 24.

48. The host cell of claim 47, wherein said isolated polynucleotide is operably associated with a heterologous regulatory sequence.

49. A method of producing a polypeptide comprising culturing the host cell of claim 48 under conditions such that a polypeptide is expressed, and recovering said polypeptide.

50. A composition comprising the isolated polynucleotide of claim 24.

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51. An isolated polynucleotide comprising a nucleic acid encoding a first amino acid sequence at least 90% identical to a reference amino acid sequence selected from the group consisting of:

- (a) amino acids 142 to 211 of SEQ ID NO:2;  
(b) amino acids 248 to 331 of SEQ ID NO:2;  
(c) amino acids 2 to 335 of SEQ ID NO:2;  
(d) amino acids 1 to 335 of SEQ ID NO:2; and  
(e) the complete amino acid sequence encoded by the cDNA clone contained in ATCC Deposit No. 203072.

52. The isolated polynucleotide of claim 51, wherein said first amino acid sequence is at least 90% identical to (a).

53. The isolated polynucleotide of claim 52, wherein said first amino acid sequence is at least 95% identical to (a).

54. The isolated polynucleotide of claim 53, wherein said first amino acid sequence is (a).

55. The isolated polynucleotide of claim 51, wherein said first amino acid sequence is at least 90% identical to (b).

56. The isolated polynucleotide of claim 55, wherein said first amino acid sequence is at least 95% identical to (b).

57. The isolated polynucleotide of claim 56, wherein said first amino acid sequence is (b).

58. The isolated polynucleotide of claim 51, wherein said first amino acid sequence is at least 90% identical to (c).

59. The isolated polynucleotide of claim 58, wherein said first amino acid sequence is at least 95% identical to (c).

60. The isolated polynucleotide of claim 59, wherein said first amino acid sequence is (c).

61. The isolated polynucleotide of claim 51, wherein said first amino acid sequence is at least 90% identical to (d).

62. The isolated polynucleotide of claim 61, wherein said first amino acid sequence is at least 95% identical to (d).

63. The isolated polynucleotide of claim 62, wherein said first amino acid sequence is (d).

64. The isolated polynucleotide of claim 51, wherein said first amino acid sequence is at least 90% identical to (e).

65. The isolated polynucleotide of claim 64, wherein said first amino acid sequence is at least 95% identical to (e).

66. The isolated polynucleotide of claim 65, wherein said first amino acid sequence is (e).

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67. The isolated polynucleotide of claim 51, further comprising a heterologous polynucleotide.

68. A method of producing a vector comprising inserting the isolated polynucleotide of claim 51 into a vector.

69. A vector comprising the isolated polynucleotide of claim 51.

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70. The vector of claim 69, wherein said isolated polynucleotide is operably associated with a heterologous regulatory sequence.

71. A host cell comprising the isolated polynucleotide of claim 51.

72. The host cell of claim 71, wherein said isolated polynucleotide is operably associated with a heterologous regulatory sequence.

73. A method of producing a polypeptide comprising culturing the host cell of claim 72 under conditions such that a polypeptide is expressed, and recovering said polypeptide.

74. A composition comprising the isolated polynucleotide of claim 51.

75. An isolated polynucleotide comprising a nucleic acid encoding a fragment of SEQ ID NO:2 or a fragment of the amino acid sequence encoded by the cDNA clone in ATCC Deposit No. 203072; wherein said fragment regulates epithelial gene expression; or the complement of said nucleic acid.

76. ~~The isolated polynucleotide of claim 75, further comprising a heterologous polynucleotide.~~

77. A method of producing a vector comprising inserting the isolated polynucleotide of claim 75 into a vector.

78. A vector comprising the isolated polynucleotide of claim 75.



79. The vector of claim 78, wherein said isolated polynucleotide is operably associated with a heterologous regulatory sequence.

80. A host cell comprising the isolated polynucleotide of claim 75.

81. The host cell of claim 80, wherein said isolated polynucleotide is operably associated with a heterologous regulatory sequence.

82. A method of producing a polypeptide comprising culturing the host cell of claim 81 under conditions such that a polypeptide is expressed, and recovering said polypeptide.

83. A composition comprising the isolated polynucleotide of claim 75.

84. An isolated polynucleotide comprising a nucleic acid selected from the group consisting of:

- (a) a nucleic acid encoding amino acids 21 to 29 of SEQ ID NO:2;
- (b) a nucleic acid encoding amino acids 38 to 46 of SEQ ID NO:2;
- (c) a nucleic acid encoding amino acids 46 to 54 of SEQ ID NO:2;
- (d) a nucleic acid encoding amino acids 66 to 74 of SEQ ID NO:2;
- (e) a nucleic acid encoding amino acids 75 to 83 of SEQ ID NO:2;
- (f) a nucleic acid encoding amino acids 84 to 92 of SEQ ID NO:2;
- (g) a nucleic acid encoding amino acids 130 to 138 of SEQ ID NO:2;

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- (h) a nucleic acid encoding amino acids 146 to 154 of SEQ ID NO:2;
  - (i) a nucleic acid encoding amino acids 165 to 173 of SEQ ID NO:2;
  - (j) a nucleic acid encoding amino acids 178 to 186 of SEQ ID NO:2;
  - (k) a nucleic acid encoding amino acids 192 to 200 of SEQ ID NO:2;
  - (l) a nucleic acid encoding amino acids 215 to 222 of SEQ ID NO:2;
  - (m) a nucleic acid encoding amino acids 229 to 237 of SEQ ID NO:2;
  - (n) a nucleic acid encoding amino acids 234 to 242 of SEQ ID NO:2;
  - (o) a nucleic acid encoding amino acids 239 to 247 of SEQ ID NO:2;
  - (p) a nucleic acid encoding amino acids 272 to 280 of SEQ ID NO:2;
  - (q) a nucleic acid encoding amino acids 279 to 287 of SEQ ID NO:2;
  - (r) a nucleic acid encoding amino acids 292 to 300 of SEQ ID NO:2;
  - (s) a nucleic acid encoding amino acids 301 to 309 of SEQ ID NO:2; and
  - (t) a nucleic acid encoding amino acids 317 to 325 of SEQ ID NO:2.

- 85. The isolated polynucleotide of claim 84, wherein said nucleic acid is (a).
- 86. The isolated polynucleotide of claim 84, wherein said nucleic acid is (b).
- 87. The isolated polynucleotide of claim 84, wherein said nucleic acid is (c).
- 88. The isolated polynucleotide of claim 84, wherein said nucleic acid is (d).
- 89. The isolated polynucleotide of claim 84, wherein said nucleic acid is (e).

90. The isolated polynucleotide of claim 84, wherein said nucleic acid is (f).
91. The isolated polynucleotide of claim 84, wherein said nucleic acid is (g).
92. The isolated polynucleotide of claim 84, wherein said nucleic acid is (h).
93. The isolated polynucleotide of claim 84, wherein said nucleic acid is (i).
94. The isolated polynucleotide of claim 84, wherein said nucleic acid is (j).
95. The isolated polynucleotide of claim 84, wherein said nucleic acid is (k).
96. The isolated polynucleotide of claim 84, wherein said nucleic acid is (l).
97. The isolated polynucleotide of claim 84, wherein said nucleic acid is (m).
98. The isolated polynucleotide of claim 84, wherein said nucleic acid is (n).
99. The isolated polynucleotide of claim 84, wherein said nucleic acid is (o).
100. The isolated polynucleotide of claim 84, wherein said nucleic acid is (p).
101. The isolated polynucleotide of claim 84, wherein said nucleic acid is (q).

102. The isolated polynucleotide of claim 84, wherein said nucleic acid is (r).

103. The isolated polynucleotide of claim 84, wherein said nucleic acid is (s).

104. The isolated polynucleotide of claim 84, wherein said nucleic acid is (t).

105. An isolated polynucleotide comprising a nucleic acid at least 95% identical to a nucleic acid encoding at least 30 contiguous amino acids of SEQ ID NO:2.

106. The isolated polynucleotide of claim 105, comprising a nucleic acid encoding at least 30 contiguous amino acids of SEQ ID NO:2.

107. An isolated polynucleotide comprising a nucleic acid at least 95% identical to a nucleic acid encoding at least 50 contiguous amino acids of SEQ ID NO:2.

108. The isolated polynucleotide of claim 107, comprising a nucleic acid encoding at least 50 contiguous amino acids of SEQ ID NO:2.

sub E9 109. An isolated polynucleotide comprising a nucleic acid at least 95% identical to a nucleic acid encoding at least 100 contiguous amino acids of SEQ ID NO:2.

110. The isolated polynucleotide of claim 109, comprising a nucleic acid encoding at least 100 contiguous amino acids of SEQ ID NO:2.

5.1.6.1 111. An isolated polynucleotide comprising a nucleic acid at least 95% identical to a nucleic acid encoding at least 150 contiguous amino acids of SEQ ID NO:2.

112. The isolated polynucleotide of claim 111, comprising a nucleic acid encoding at least 150 contiguous amino acids of SEQ ID NO:2.

113. The isolated polynucleotide of claim 105, further comprising a heterologous polynucleotide.

114. A method of producing a vector comprising inserting the isolated polynucleotide of claim 105 into a vector.

115. A vector comprising the isolated polynucleotide of claim 105.

5.1.6.2 116. The vector of claim 115, wherein said isolated polynucleotide is operably associated with a heterologous regulatory sequence.

117. A host cell comprising the isolated polynucleotide of claim 105.

5.1.6.3 118. The host cell of claim 117, wherein said isolated polynucleotide is operably associated with a heterologous regulatory sequence.

119. A method of producing a polypeptide comprising culturing the host cell of claim 118 under conditions such that a polypeptide is expressed, and recovering said polypeptide.

120. A composition comprising the isolated polynucleotide of claim 105.

121. An isolated polynucleotide comprising a first nucleic acid which hybridizes in a wash solution consisting of 0.1x SSC at 65 °C; to a second nucleic acid selected from the group consisting of:

(a) a nucleic acid consisting of the coding region of the cDNA clone contained in ATCC Deposit No. 203072 or the complement thereof; and

(b) a nucleic acid consisting of the coding region of SEQ ID NO:1 or the complement thereof;

wherein said first nucleic acid is 150 or more nucleotides long.

122. The isolated polynucleotide of claim 121, further comprising a heterologous polynucleotide.

123. A method of producing a vector comprising inserting the isolated polynucleotide of claim 121 into a vector.

124. A vector comprising the isolated polynucleotide of claim 121.

125. The vector of claim 124, wherein said isolated polynucleotide is operably associated with a heterologous regulatory sequence.

126. A host cell comprising the isolated polynucleotide of claim 121.

127. The host cell of claim 126, wherein said isolated polynucleotide is operably associated with a heterologous regulatory sequence.

128. An isolated polynucleotide comprising a nucleic acid encoding the amino acid sequence m-n of SEQ ID NO:2, wherein m is an integer from 2 to 321, and wherein n is an integer from 15 to 335.

129. The isolated polynucleotide of claim 128, ~~further comprising a heterologous polynucleotide.~~

130. A method of producing a vector comprising inserting the isolated polynucleotide of claim 128 into a vector.

131. A vector comprising the isolated polynucleotide of claim 128.

132. The vector of claim 131, wherein said isolated polynucleotide is operably associated with a heterologous regulatory sequence.